

POSITIONS, AREAS, AND COUNTS OF SUNSPOTS FOR OCTOBER 1943

POSITIONS, AREAS, AND COUNTS OF SUNSPOTS FOR OCTOBER 1943—Continued

[Communicated by Capt. J. F. Hellweg, U. S. N. (Ret.), Superintendent, U. S. Naval Observatory.] All measurements and spot counts were made at the Naval Observatory from plates taken at the observatories indicated. Difference in longitude is measured from the central meridian, positive toward the west. Latitude is positive toward the north. Areas are corrected for foreshortening and expressed in millionths of Sun's hemisphere. For each day, under longitude, latitude, area of spot or groups and spot count are included assumed longitude of center of the disk, assumed latitude of center of the disk, total area of spots and groups and total spot count.

Date	East-ern stand-ard time		Mount Wilson group No.	Heliographic				Area of spot or group	Spot count	Plate quality	Observatory	
				Dif-fer-ence in longi-tude	Lon-gi-tude	Lat-i-tude	Dis-tance from enter of disk					
1945 Oct. 1	h m	13 32	7617	o	o	o	o	48	3	VG	U.S.Naval.	
			7617	-29	70	+14	30					24
			7617	-22	77	+19	24					533
				(99)	(+7)		605	11				
2	11 58	7617	-15	71	+14	17	36	5	G	Do.		
		7617	-8	78	+19	14	24					
		7617	-5	81	+15	10	533					
				(86)	(+7)		598	14				
3	11 10	7617	-2	72	+14	7	24	2	F	Do.		
		7617	+4	78	+17	11	36					
		7617	+8	82	+15	13	533					
				(74)	(+7)		593	9				
4	10 57	7617	+9	70	+14	12	24	4	F	Do.		
		7617	+10	71	+12	12	16					
		7617	+21	82	+15	23	533					
				(61)	(+7)		573	6				
5	10 30	7617	+23	71	+12	24	24	4	G	Do.		
		7617	+34	82	+15	35	582					
						(48)	(+7)		606	5		
6	10 52	7617	+37	71	+12	38	12	4	G	Do.		
		7617	+48	82	+15	49	509					
						(34)	(+6)		521	5		
7	10 58	(*)	+4	25	-9	17	6	2	G	Do.		
		7617	+50	71	+11	50	12					
		7617	+61	82	+15	61	461					
				(21)	(+6)		479	6				
8	11 2	7617	+74	82	+15	74	461	1	G	Do.		
						(8)	(+6)		461	1		
9	11 57	7618	+22	16	-27	39	36	9	G	Do.		
		7617	+36	80	+15	36	436					
						(354)	(+6)		472	10		
10	10 9	7618	+36	18	-27	48	86	3	G	Mt. Wilson.		
						(342)	(+6)		86	3		
11	10 11	7618	+52	21	-27	61	16	2	G	Do.		
						(329)	(+6)		16	2		
12	10 50			No spots					F	U. S. Naval.		
		13	10 15			No spots			G	Mt. Wilson.		
						No spots			F	Do.		
14	10 25			No spots				G	Do.			
		15	10 17			No spots			G	Do.		
16	12 40			7619	+2	263	+6	2	36	10	VG	U. S. Naval.
						(261)	(+6)		36	10		
17	10 20	7619	+13	262	+4	13	12	2	G	Mt. Wilson.		
						(249)	(+6)		12	2		
18	11 22			No spots				G	U. S. Naval.			

Date	East-ern stand-ard time		Mount Wilson group No.	Heliographic				Area of spot or group	Spot count	Plate quality	Observatory			
				Dif-fer-ence in longi-tude	Lon-gi-tude	Lat-i-tude	Dis-tance from center of disk							
1945 Oct. 19	h m	10 25	7620	+3	o	226	-4	o	11	12	3	G	Mt. Wilson.	
														(223)
20	10 30				No spots							G	U. S. Naval.	
21	10 45				No spots							G	Do.	
22	10 40				No spots							G	Mt. Wilson.	
23	11 36				No spots							G	Do.	
24	11 46	7621	-78	78	+16	78	291	1	G	291	1	G	Do.	
														(156)
25	10 51	7621	-64	79	+16	64	291	1	G	291	1	G	Do.	
														(143)
26	11 54	7621	-51	79	+16	52	242	1	G	242	1	G	Do.	
														(130)
28	15 4	7621	-22	80	+14	23	242	1	G	242	6	6	G	U. S. Naval.
		7621	-22	80	+16	24	36							
		(*)	-22	80	+22	27	6							
					(102)	(+5)	284	8						
29	10 49	7621	-12	79	+16	17	36	6	G	267	1	G	Do.	
		7621	-11	80	+15	16	267							
					(91)	(+5)	303	7						
30	10 40	7621	+2	80	+15	11	267	1	G	267	1	G	Do.	
31	13 3	7621	+16	79	+15	18	242	1	G	242	1	G	Do.	
					(63)	(+4)	242	1						

Mean daily area for 30 days=231
 * Not numbered.
 VG=very good; G=good; F=fair; P=poor.

PROVISIONAL RELATIVE SUNSPOT NUMBERS FOR SEPTEMBER 1943

[Based on observations at Zurich, except as otherwise noted. Data furnished through the courtesy of Prof. W. Brunner, Swiss Federal Observatory, Zurich Switzerland]

September 1943	Relative numbers	September 1943	Relative numbers	September 1943	Relative numbers
1	0	11	29	21	12
2	0	12	22	22	7
3	0	13	0	23	0
4	0	14	0	24	0
5	0	15	0	25	0
6	0	16	0	26	*d 11
7	Mc 19	17	0	27	11
8	29	18	Mac 23	28	13
9	31	19	20	29	*16
10	26	20	13	30	14

Mean, 29 days=10.2
 (*)= Observed at Locarno.
 a= Passage of an average-size group through the central meridian.
 b= Passage of a large group through the central meridian.
 c= New formation of a group developing into a middle or large center of activity: E, on the eastern part of the sun's disk; W, on the western part; M, in the central-circle zone.
 d= Entrance of a large or average-sized center of activity on the east limb.